

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A heat generator for use in a heating apparatus, comprising:

coil members arranged along an axis extending in a longitudinal direction of the heat generator;

a central shaft in which ~~[[a]] core material is~~ materials are made from ferrite and an outer circumference is coated with resin or non-ferrous metal, the central shaft being provided to extend along the axis, the core materials being arranged in positions corresponding to gaps between the coil members;

an elastic body formed to be a predetermined thickness at a circumference of the central shaft;

a conductor layer formed to be a predetermined thickness at a circumference of the elastic body; and

a second elastic body formed to be a predetermined thickness at a circumference of the conductor layer~~[[,]]~~

~~wherein the heat generator is elastically deformed at a position which contacts a member to be contacted with the second elastic body at a predetermined pressure, and can to supply heat and pressure to a medium to be supplied between the second elastic body and the member to be contacted, and an image developing agent carried by the medium.~~

2. (Previously Presented) A heat generator according to claim 1, wherein the ferrite material of the central shaft is divided into a plurality of portions in a longitudinal direction, each divided portion being ferrous.

3.-10. (Canceled)

11. (Currently Amended) A fixing apparatus comprising:

a heat generator including (i) coil members arranged along an axis extending in a longitudinal direction of the heat generator, (ii) a central shaft in which ~~[[a]] core material is materials are made from~~ ferrite and an outer circumference is coated with resin or non-ferrous metal, the central shaft being provided to extend along the axis, the core materials being arranged in positions corresponding to gaps between the coil members, (iii) an elastic body formed to be a predetermined thickness at a circumference of the central shaft, (iv) a conductor layer formed to be a predetermined thickness at a circumference of the elastic body, and (v) a second elastic body formed to be a predetermined thickness at a circumference of the conductor layer;

a magnetic field generator which provides a magnetic field such that the conductor layer of the heat generator can generate heat; and

a pressure member which is provided along the central shaft of the heat generator, and applies pressure that deforms the elastic body layer by a predetermined amount to a predetermined position of the central shaft or the heating generator[[,]]

~~wherein the central shaft includes material of a quality which does not generate heat when a magnetic field is supplied thereto, or which is not affected by magnitude of a magnetic field used as heat which the conductor layer should generate.~~

12. (Original) A fixing apparatus according to claim 11, wherein a plurality of the magnetic field generators are provided along a direction in which the central shaft of the heat generator extends.

13.-19. (Canceled)

20. (New) A heat generator according to claim 1, wherein the coil members are located outward of the second elastic body.

21. (New) A fixing apparatus according to claim 11, wherein the coil members are located outward of the second elastic body.

22. (New) A heat generator for use in a heating apparatus, comprising:
coil members arranged along an axis extending in a longitudinal direction of the heat generator;
a central shaft in which a core material is made from ferrite, the central shaft being covered by material having a shearing resistance, the central shaft being provided to extend along the axis;
an elastic body formed to be a predetermined thickness at a circumference of the central shaft;
a conductor layer formed to be a predetermined thickness at a circumference of the elastic body; and
a second elastic body formed to be a predetermined thickness at a circumference of the conductor layer.

23. (New) A heat generator according to claim 22, wherein the coil members are located outward of the second elastic body.

24. (New) A heat generator for use in a heating apparatus, comprising:
first means, which is cylindrically formed along an axis extending in a longitudinal direction of the heat generator, for creating heat;
second means for causing the first means to generate an eddy current;
third means, which is cylindrically formed along the axis and at an outer circumference of the first means, for covering the first means, the third means having elasticity;
fourth means, which is cylindrically formed along the axis and at an inner circumference of the first means, for holding the first means, the fourth means having elasticity;
fifth means, which is cylindrically formed along the axis and at an inner circumference of the fourth means, for supporting the fourth means, the fifth means including core materials made from ferrite; and
sixth means for transferring heat of portions of the fourth means, which correspond to gaps between the second means.

25. (New) A heat generator according to claim 24, wherein the sixth means for transferring includes a conductor.

26. (New) A fixing apparatus comprising:

a heat generator including (i) first means, which is cylindrically formed along an axis extending in a longitudinal direction of the heat generator, for creating heat, (ii) second means for causing the first means to generate an eddy current, (iii) third means, which is cylindrically formed along the axis and at an outer circumference of the first means, for covering the first means, the third means having elasticity, (iv) fourth means, which is cylindrically formed along the axis and at an inner circumference of the first means, for holding the first means, the fourth means having elasticity, (v) fifth means, which is cylindrically formed along the axis and at an inner circumference of the fourth means, for supporting the fourth means, the fifth means including core materials made from ferrite, and (vi) sixth means for transferring heat of portions of the fourth means, which correspond to gaps between the second means.

27. (New) A fixing apparatus according to claim 26, wherein the sixth means for transferring includes a conductor.